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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/803,497	03/18/2004	Christopher J. Jackson	SUN04-0259	5680

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PVF -- SUN MICROSYSTEMS INC.

C/O PARK, VAUGHAN & FLEMING LLP

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DAVIS, CA 95618-7759

EXAMINER

GELAGAY, SHEWAYE

ART UNIT

PAPER NUMBER

2437

MAIL DATE

DELIVERY MODE

02/24/2009

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/803,497

Applicant(s)

JACKSON, CHRISTOPHER J.

Examiner

SHEWAYE GELAGAY

Art Unit

2437

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 December 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-29 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-29 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SE/US)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

1. This office action is in response to Applicant's amendment filed on June 5, 2008. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/09/08 has been entered.
2. Claims 1, 11-12, 22-23 and 29 have been amended. Claims 1-29 are pending.

Response to Arguments

1. Applicant's arguments filed December 9, 2008 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
3. Claims 1-29 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1, 11-12, 22-23 and 29 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 1, 11-12, 22-23 and 29

recite the word "if" twice "if the first endnode is not a trusted endnode, discarding the management communication if the management communication is not a first category management communication," the limitation is vague and indefinite because it is not clear how the claim is bounded. It is unclear what will happen if the first endnode is trusted.

4. Claims 2-10, 13-21 and 24-28 also rejected for being dependent on the rejected claims.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gai et al. (hereinafter Gai) US 2004/0160903 in view of Pinto US 2002/0133622 and in view of Chou et al. (hereinafter Chou) US 6,920,106.

As per claims 1, 11-12, 22-23 and 29:

Gai teaches an automated method of preventing an endnode in a communication fabric from receiving an unauthorized communication, comprising:
establishing a first category of communications to include: a request from a manager

node to an endnode; and a reply from the manager node to a request from an endnode; (page 1, pp. 9-11; page 2, pp 12-13; page 4, pp. 47-page 5, pp. 62; page 6, pp. 76-pp. 83) establishing a second category of communications to include: a reply from an endnode to a request from the manager node; and a request from an endnode to the manager node; (page 1, pp. 9-11; page 2, pp 12-13; page 4, pp. 47-page 5, pp. 62; page 6, pp. 76-pp. 83) and at a switching device coupled to a first endnode: (page 1, pp. 9-11; page 2, pp 12-13; page 4, pp. 44-page 5, pp. 62; page 6, pp. 76-pp. 83) receiving from the communication fabric a communication addressed to the first endnode; (page 1, pp. 9-11; page 2, pp 12-13; page 4, pp. 44-page 5, pp. 62; page 6, pp. 76-pp. 83) determining whether the first endnode is a trusted endnode; (page 1, pp. 9-11; page 2, pp 12-13; page 4, pp. 44-page 5, pp. 62; page 6, pp. 76-pp. 83; page 8, pp.112-113) and if the first endnode is not a trusted endnode, discarding the communication if the communication is not a first category communication. (page 1, pp. 9-11; page 2, pp 12-13; page 4, pp. 44-page 5, pp. 62; page 6, pp. 76-pp. 83; page 8, pp.112-113)

Gai does not explicitly teach determining whether the management communication is a first category management communication based on a management class of the node the management communication originated from and whether the management communication is a request or a reply. Pinto in analogous art, however, discloses determining whether the management communication is a first category management communication based on a management class of the node the management communication originated from and whether the management communication is a request or a reply. (page 5, pp.38-39; page 6, pp. 51-55; page 7,

pp. 59-62) Therefore it would have been obvious to one ordinary skill in the art to modify the method disclosed by Gai with Pinto in order to create one or more channels between communication devices at a host system or between multiple host systems connected together directly or via a data network may be created and managed so that requested operation can be performed. (page 1, pp. 4; Pinto)

Both references do not explicitly disclose the communication is a management communication. Chou in analogous art, however, discloses a communication is a management communication. (col. 3, line 25-col. 4, line 36; col. 9, line 46-col. 10, line 14) Therefore it would have been obvious to one ordinary skill in the art to modify the method disclosed by Gai and Pinto with Chou in order to provide a system for processing of management packets that require additional resources and bandwidth in an efficient manner, thereby improving performance of the interconnect device. (col. 1, lines 60-63; Chou)

As per claims 2, 13 and 24:

The combination of Gai, Pinto and Chou teaches all the subject matter as discussed above. In addition, Gai further teaches classifying each endnode in the communication fabric as either trusted or untrusted. (page 1, pp. 9-11; page 2, pp 12-13; page 4, pp. 44-page 5, pp. 62; page 6, pp. 76-pp. 83; page 8, pp.112-113)

As per claims 3, 14 and 25:

The combination of Gai, Pinto and Chou teaches all the subject matter as discussed above. In addition, Chou further teaches wherein said classifying comprises: associating with each port of the switching device an indicator configured to indicate

whether a node coupled to the port is trusted. (page 1, pp. 9-11; page 2, pp 12-13; page 4, pp. 44-page 5, pp. 62; page 6, pp. 76-pp. 83; page 8, pp.112-113)

As per claims 4, 15 and 26:

The combination of Gai, Pinto and Chou teaches all the subject matter as discussed above. In addition, Chou further teaches wherein said classifying comprises: classifying the first endnode as a trusted endnode if the first endnode is a manager node. (col. 3, line 25-col. 4, line 36; col. 9, line 46-col. 10, line 14)

As per claims 5, 16 and 27:

The combination of Gai, Pinto and Chou teaches all the subject matter as discussed above. In addition, Chou further teaches wherein said classifying comprises: classifying the first endnode as an untrusted endnode if the first endnode is not configured to act as a manager node. (col. 3, line 25-col. 4, line 36; col. 9, line 46-col. 10, line 14)

As per claims 6 and 17:

The combination of Gai, Pinto and Chou teaches all the subject matter as discussed above. In addition, Gai further teaches wherein said determining comprises: reading an indicator associated with a port of the switch to which the first endnode is coupled; wherein said indicator is configured to indicate whether the first endnode is trusted. ((page 1, pp. 9-11; page 2, pp 12-13; page 4, pp. 44-page 5, pp. 62; page 6, pp. 76-pp. 83; page 8, pp.112-113)

As per claims 7 and 18:

The combination of Gai, Pinto and Chou teaches all the subject matter as discussed above. In addition, Gai further teaches comprising, at the switching device: if the first endnode is trusted, forwarding the management communication to the first endnode regardless of the category of the management communication. (page 1, pp. 9-11; page 2, pp 12-13; page 4, pp. 44-page 5, pp. 62; page 6, pp. 76-pp. 83; page 8, pp.112-113)

As per claims 8 and 19:

The combination of Gai, Pinto and Chou teaches all the subject matter as discussed above. In addition, Chou further teaches comprising, at the switching device: receiving a second management communication from the first endnode; and discarding the second management communication if the management communication is not a second category management communication. (col. 3, line 25-col. 4, line 36; col. 9, line 46-col. 10, line 14)

As per claims 9, 20 and 28:

The combination of Gai, Pinto and Chou teaches all the subject matter as discussed above. In addition, Chou further teaches wherein the communication fabric comprises a subnet of an InfiniBand communication fabric. (col. 3, line 25-col. 4, line 36; col. 9, line 46-col. 10, line 14)

As per claims 10 and 21:

The combination of Gai, Pinto and Chou teaches all the subject matter as discussed above. In addition, Chou further teaches wherein a management communication comprises a communication transmitted on virtual lane 15 of the

InfiniBand communication fabric. (col. 3, line 25-col. 4, line 36; col. 9, line 46-col. 10, line 14)

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SHEWAYE GELAGAY whose telephone number is (571)272-4219. The examiner can normally be reached on 8:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on 571-272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/S. G./
Examiner, Art Unit 2437

/Emmanuel L. Moise/
Supervisory Patent Examiner, Art Unit 2437

